



Borough of Colne.

Annual Report

FOR THE

Year ending December 31st, 1914,


BY THE

MEDICAL OFFICER OF HEALTH,

W. DOYLE, M.B., C.M.

Colne:

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COLNE.

THE MEDICAL OFFICER OF HEALTH'S ANNUAL REPORT

FOR THE YEAR ENDING DECEMBER 31ST, 1914.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to present to you my Annual Report for the year ending December 31st, 1914.

The area of the Borough is 5,063 acres, made up of an urban part, and a surrounding agricultural district ; the altitude varying from 400 to 1,400 feet.

There is good natural drainage to the Colne Water and its tributaries. The portions of the Borough to the north and east of the river are on the millstone grit, the south-western portion on the coal measures. Boulder clay is irregularly but quite commonly distributed over the district ; the North Valley district is largely sandy shale ; glacial sands and gravel also occur in considerable quantity.

Textile manufacturing, engineering, tanning and dairy farming are the principal industries. The cotton trade, which is the chief industry, has during the year been in a very depressed condition. The bad trade of the first seven months having been greatly accentuated by the war during the last five months. 950 men have enlisted, and it is estimated that 400 reservists and ambulance men have been called up, making a total of 1,350 men.

The approximate number of persons employed in the cotton trade are :—

| | Males. | Females. | Total. |
|-----------------------------------|-------------|-------------|-------------|
| Weavers | 2100 | 3150 | 5250 |
| Winders, Spinners, and others ... | 550 | 450 | 1000 |
| | <u>2650</u> | <u>3600</u> | <u>6250</u> |

| Ages. | Males. | Females. | Total. |
|----------------------------------|-------------|-------------|-------------|
| Over 10 years and under 15 years | 295 | 385 | 680 |
| „ 15 do 25 „ | 840 | 1660 | 2500 |
| „ 25 do 45 „ | 1060 | 1340 | 2400 |
| „ 45 do 65 „ | 428 | 212 | 640 |
| 65 years and upwards | <u>27</u> | <u>3</u> | <u>30</u> |
| Total at all ages ... | <u>2650</u> | <u>3600</u> | <u>6250</u> |

| | |
|--|-------------|
| Unmarried Females engaged in the Cotton Trade ... | 2320 |
| Married or Widowed Females engaged in the Cotton Trade | 1280 |
| Total ... | <u>3600</u> |

Average number of Half-timers 358

The Borough Collector's Certificate states that there are 6,448 inhabited houses on his books to the 31st December, 1914, and this number is multiplied by the inhabited ratio per house, found at the census in 1911, as follows :—

| | Inhabited Houses. | Population. |
|---------------------------|-------------------|--------------|
| Primet Bridge Ward | 983 | 4175 |
| Vivary Bridge Ward | 1260 | 5355 |
| Central Ward | 1121 | 4767 |
| Horsfield Ward | 1403 | 5963 |
| Carry Bridge Ward..... | 1240 | 5270 |
| Laneshaw Bridge Ward..... | <u>441</u> | <u>1874</u> |
| Totals ... | <u>6448</u> | <u>27404</u> |

BIRTHS.

Total births registered—485. Males 229, Females 256. Of this number 12 males and 16 females were illegitimate.

The birth-rate was 17·69 per 1,000 of the estimated population of 27,404. The birth-rate last year was 20·03.

The number of births and birth-rate in each Ward was :—

| Ward. | Births. | | Rate per 1000. |
|----------------------|---------|-----|----------------|
| Primet Bridge | 76 | ... | 18·20 |
| Vivary Bridge | 75 | ... | 14·00 |
| Central | 76 | ... | 15·94 |
| Horsfield | 105 | ... | 17·77 |
| Carry Bridge..... | 123 | ... | 23·33 |
| Laneshaw Bridge..... | 30 | ... | 16·00 |

Four births were transferred from other districts, making the nett number of births 489. Corrected birth-rate 17·84.

DEATHS.

Total deaths registered—348. Males 175; Females 173. The death rate equals 12·69 per 1,000 of the estimated population. Last year there were 321 deaths, equalling a death-rate of 11·84 per 1,000.

The deaths and the death-rate for each Ward was :

| Ward. | Deaths. | | Rate per 1000. |
|-----------------------|---------|-----|----------------|
| Primet Bridge | 58 | ... | 13·89 |
| Vivary Bridge..... | 49 | ... | 9·50 |
| Central | 76 | ... | 15·94 |
| Horsfield | 73 | ... | 12·24 |
| Carry Bridge | 69 | .. | 13·09 |
| Laneshaw Bridge | 23 | ... | 12·27 |

The number of residents of the Borough who died in other districts was 36 (males 20, females 16) viz :—Burnley Union Infirmary 21 (males 14, females 7), Stockport Lunatic Hospital 1 male, Kendal County Hos-

pital 1 male, Crook Training Colony 1 male, Skipton Union Workhouse Infirmary 1 male, Manchester Royal Infirmary 1 female, Swinton Nursing Home 1 female, Prestwich Asylum 2 (1 male, 1 female), Lancaster County Asylum 2 (1 male, 1 female), Blackpool 2 females, Burnley 1 female, Brighton 1 female, Leamington 1 female.

There were 8 deaths in the Borough of non-residents, viz :—
Trawden 2 males, Barrowford 1 male, Foulridge 1 female, Kelbrook 1 female, Burnley 1 female, Manchester 1 male 1 female.

If the deaths of the residents who died in other districts are added and non-residents subtracted, the correct death-rate for the Borough will be 13·72 as against 13·42 last year.

The deaths in the Burnley Infirmary (21) were mainly persons of the tramping and peddling class, etc., who stayed in common lodging-houses or houses-let-in-lodgings in the town for a short time, and on sickness overtaking them were removed by the Relieving Officer to the Union Workhouse, and when death occurred they were returned as inhabitants of Colne.

There were 88 deaths among children under 5 years of age, viz :—
57 in the first year, 19 in the second year, 9 in the third year, 3 in the fourth year, and 0 in the fifth year of life.

The deaths among persons over 5 years of age were 260, and of this number 93 were 65 years of age and over, the eldest being 91 years of age.

The ages at death were as follows :—

| 8 deaths among persons over 5 years and under 10 years. | | | | | | |
|---|---|---|----|---|----|---|
| 4 | ” | ” | 10 | ” | 15 | ” |
| 14 | ” | ” | 15 | ” | 20 | ” |
| 16 | ” | ” | 20 | ” | 30 | ” |
| 28 | ” | ” | 30 | ” | 40 | ” |
| 37 | ” | ” | 40 | ” | 50 | ” |
| 14 | ” | ” | 50 | ” | 55 | ” |
| 23 | ” | ” | 55 | ” | 60 | ” |

23 deaths among persons over 60 years and under 65 years.

| | | | | | | |
|----|---|---|----|---|----|---|
| 32 | „ | „ | 65 | „ | 70 | „ |
| 29 | „ | „ | 70 | „ | 75 | „ |
| 17 | „ | „ | 75 | „ | 80 | „ |
| 12 | „ | „ | 80 | „ | 85 | „ |
| 2 | „ | „ | 85 | „ | 90 | „ |
| 1 | „ | „ | 90 | „ | 95 | „ |

The average age at death was 40·63 years.

The number of deaths occurring during the working age, viz :— between 12 and 65 years of age was 156 (74 males and 82 females), which if calculated upon the population equals a rate of 5·69 per 1,000.

SCHOOLS.

The sanitary condition of the schools in the Borough have been satisfactory during the year.

The following scheme has been arranged between the School Medical Officer and myself in regard to our respective duties :—

- (a) That the School Medical Officer be informed of all cases of infectious diseases occurring amongst children of school age, which may have been notified to the Medical Officer of Health.
- (b) That the sanitation of the schools should be the business of the Medical Officer of Health, and that the School Medical Officer shall report all defects in sanitation which he may observe at the time of his inspections to the Medical Officer of Health.
- (c) That the Medical Officer of Health through the means at his disposal shall disinfect the schools when he thinks necessary, or when requested to do so by the School Medical Officer.

COTTAGE HOSPITAL.

During the year 245 patients (120 males and 125 females), as against 256 in 1913, were admitted to this institution. Twenty-one deaths (10

males, 11 females) occurred, which equals a rate of 85 per 1,000 patients admitted.

The causes of death were—2 heart disease, 2 nephritis, 1 appendicitis, 1 strangulated hernia, 1 cancer, 1 violent death, 1 tubercular meningitis, 1 tubercular peritonitis, 1 pneumonia, 2 ulcer, 1 suicide, and 7 other causes.

Eighteen deaths were of residents of the Borough, two residents of Trawden, and one of Manchester.

PHTHISIS.

The deaths from phthisis (consumption) number 23 with a rate of ·83. Last year there were 16 deaths.

The deaths were distributed throughout the town as follows:—

| | | | | |
|----------------------|-----|-----|-----|---|
| Primet Bridge Ward | ... | ... | ... | 3 |
| Vivary Bridge Ward | ... | ... | ... | 2 |
| Central Ward | ... | ... | ... | 3 |
| Horsfield Ward | ... | ... | ... | 7 |
| Carry Bridge Ward | ... | ... | ... | 7 |
| Laneshaw Bridge Ward | ... | .. | ... | 1 |

RESPIRATORY DISEASES.

The deaths from the respiratory diseases, bronchitis, pneumonia and other diseases of the respiratory organs were 77, with a rate of 2·07. Last year 68, equalling a rate of 2·50.

The deaths were distributed in the following manner:—

| | | | | |
|----------------------|-----|-----|-----|----|
| Primet Bridge Ward | ... | ... | ... | 16 |
| Vivary Bridge Ward | ... | ... | ... | 9 |
| Central Ward | ... | ... | ... | 22 |
| Horsfield Ward | ... | ... | ... | 15 |
| Carry Bridge Ward | ... | ... | ... | 11 |
| Laneshaw Bridge Ward | ... | ... | ... | 4 |

INQUEST CASES.

During the year there were 13 deaths (9 males, 4 females) necessitating a Coroner's Inquest. Compared with last year 13.

INFANTILE MORTALITY.

The deaths of infants under 12 months was 57, this being 117·52 per 1000 births.

From the table you will see the Infantile Death Rate per 1,000 births from 1897 the 1914.

| Year. | Deaths under 1 year. | | | | | Infantile Rate. |
|-------|----------------------|-----|-----|-----|-----|-----------------|
| 1897 | ... | ... | 121 | ... | ... | 166 |
| 1898 | ... | ... | 113 | ... | ... | 157 |
| 1899 | ... | ... | 125 | ... | ... | 187 |
| 1900 | ... | ... | 118 | ... | ... | 179 |
| 1901 | ... | .. | 107 | ... | ... | 176 |
| 1902 | ... | ... | 116 | ... | ... | 188 |
| 1903 | ... | ... | 76 | ... | ... | 127 |
| 1904 | ... | ... | 96 | ... | ... | 163 |
| 1905 | ... | ... | 76 | ... | ... | 134 |
| 1906 | ... | ... | 104 | ... | ... | 175 |
| 1907 | ... | .. | 73 | ... | ... | 120 |
| 1908 | ... | ... | 88 | ... | ... | 144 |
| 1909 | ... | ... | 56 | ... | ... | 105 |
| 1910 | ... | ... | 77 | ... | ... | 145 |
| 1911 | ... | ... | 82 | ... | ... | 144 |
| 1912 | ... | ... | 70 | ... | ... | 136 |
| 1913 | ... | ... | 54 | ... | ... | 99 |
| 1914 | ... | ... | 57 | ... | ... | 117 |

Average
173

Average
157

Average
131

The number of deaths and rate in each ward was :—

| Ward. | Deaths. | Rate per 1000. |
|----------------------|---------|----------------|
| Primet Bridge | 9 | 118·42 |
| Vivary Bridge | 8 | 106·66 |
| Central | 10 | 131·57 |
| Horsfield | 12 | 114·28 |
| Carry Bridge | 16 | 130·08 |
| Laneshaw Bridge..... | 2 | 66·66 |

There were 5 deaths of children born illegitimate (2 males, 3 females). All these were under 1 year of age.

TABLE A.

The following table gives the Cause of Death, in weeks and months, of Infants under one year of age during 1914.

| DISEASES. | | | | Under 1 week | 1-2 weeks | 2-3 weeks | 3-4 weeks | Total under 1 month | 1-2 months | 2-3 months | 3-4 months | 4-5 months | 5-6 months | 6-7 months | 7-8 months | 8-9 months | 9-10 months | 10-11 months | 11-12 months | Total Deaths under 1 year. |
|-------------------|-----|-----|-----|--------------|-----------|-----------|-----------|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|--------------|--------------|----------------------------|
| Bronchitis | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | 1 | ... | 2 | ... | 1 | 6 |
| Pneumonia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 |
| Measles | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 1 | 3 |
| Diarrhœa | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 2 |
| Enteritis | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | 1 | ... | ... | ... | 3 | ... | 1 | ... | 7 |
| Debility | ... | ... | ... | ... | 2 | 2 | 1 | 1 | 6 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 8 |
| Marasmus | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 3 |
| Premature Birth | ... | ... | ... | ... | 8 | ... | ... | 8 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 8 |
| Convulsions | ... | ... | ... | ... | ... | 1 | 1 | 2 | ... | ... | 1 | ... | ... | ... | ... | 1 | ... | 1 | ... | 5 |
| Broncho Pneumonia | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | 2 | 1 | 1 | ... | ... | 5 |
| Other Causes | ... | ... | ... | ... | 3 | 1 | ... | 4 | ... | ... | 1 | 1 | ... | 2 | ... | ... | 1 | ... | ... | 9 |
| Totals | ... | ... | ... | ... | 13 | 4 | 2 | 1 | 20 | 6 | 1 | 6 | 2 | 1 | 2 | 3 | 6 | 4 | 3 | 57 |

During the year there were 148 children registered as having been born in back-to-back and single houses. During the same period 21 deaths of infants were registered in the same class of house, giving an infantile death-rate of 141·8 per 1,000 births. There were 337 births registered in through houses, with 35 deaths. The infantile mortality of which is 103 per 1,000.

NOTIFIED BIRTHS.

The number of births notified at the Health Office was 496, but of these 23 were still-born, which leaves 473 born living as against 512 last year.

The number in each Ward was :—

| Ward. | Births Notified. | Still-born. | Born Living. |
|-----------------------|------------------|-------------|--------------|
| Primet Bridge | 74 | ... | 71 |
| Vivary Bridge | 71 | ... | 67 |
| Central | 79 | ... | 75 |
| Horsfield | 117 | ... | 113 |
| Carry Bridge..... | 128 | ... | 120 |
| Laneshaw Bridge | 27 | ... | 27 |

The 496 births were notified by :—

| | |
|-------------------------|-----|
| Medical Men | 113 |
| Certified Midwives..... | 291 |
| Parents, etc..... | 92 |

Of the 473 notified births born living 35 deaths occurred, which is equal to a rate of 73·99 per 1,000 births notified, as against 76·17 last year.

TABLE B.

Table giving the Cause of Death of the Notified Births in weeks and months.

| CAUSES OF DEATH. | | | | | Under 1 week | 1-2 weeks | 2-3 weeks | 3-4 weeks | Total under 1 month | 1-2 months | 2-3 months | 3-4 months | 4-5 months | 5-6 months | 6-7 months | 7-8 months | 8-9 months | 9-10 months | 10-11 months | 11-12 months | Total Deaths under 1 year. |
|--------------------------|-----|-----|-----|-----|--------------|-----------|-----------|-----------|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|--------------|--------------|----------------------------|
| Debility | ... | ... | ... | ... | 2 | 2 | 1 | 1 | 6 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 8 |
| Marasmus | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 3 |
| Premature Birth | ... | ... | ... | ... | 8 | ... | ... | ... | 8 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 8 |
| Convulsions | ... | ... | ... | ... | ... | 1 | 1 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 |
| Diarrhoea | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 2 |
| Enteritis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | 2 | ... | ... | ... | ... | 4 |
| Bronchitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 |
| Broncho Pneumonia | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 2 |
| Other Causes | ... | ... | ... | ... | 3 | 1 | ... | ... | 4 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 5 |
| Totals | ... | ... | ... | ... | 13 | 4 | 2 | 1 | 20 | 6 | 1 | 4 | 1 | ... | ... | 1 | 2 | ... | ... | ... | 35 |

The number of deaths, of notified living births, and the rate in each Ward was :—

| | | | | | |
|-----------------------|-----|-----|----|-----|-------|
| Primet Bridge | 71 | ... | 4 | ... | 56·33 |
| Vivary Bridge | 67 | ... | 5 | ... | 74·62 |
| Central | 75 | ... | 6 | ... | 80·00 |
| Horsfield | 113 | ... | 7 | ... | 61·94 |
| Carry Bridge | 120 | ... | 11 | ... | 91·66 |
| Laneshaw Bridge | 27 | ... | 2 | ... | 74·07 |

In reporting upon the work of the Health Nurse, it is gratifying to state that the system has again worked well throughout the year.

The system of forwarding per post to the parents of newly-born infants a pamphlet informing them that in case of sickness the voluntary services of the Health Nurse could be obtained on forwarding names and addresses to the Health Office, Town Hall, is working quite satisfactorily.

I am pleased to say that advantage has been taken of this offer, and in many cases the lives of infants have been saved.

The following is an account of the work done by the Nurse during the year, with the number of visits paid, etc. :—

No. of newly-born infants attended, 484. No. of visits made, 2605.

No. of infants attended who were receiving medical attention, 49.

No. of visits made to these, 512.

Mothers with still-born infants, 25. No. of visits made, 25.

Total number of visits made during the year, 3,142.

FEEDING OF CHILDREN.

| | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|
| Breast | ... | ... | ... | ... | ... | 360 |
| Breast and Milk | ... | ... | ... | ... | ... | 1 |
| Milk and Water | ... | ... | ... | ... | ... | 55 |
| Prepared Barley | ... | ... | ... | ... | ... | 3 |
| Patent Food | ... | ... | ... | ... | ... | 2 |
| Nestle's Milk | ... | ... | ... | ... | ... | 1 |

INFECTIOUS DISEASES.

Under the Infectious Diseases Notification Act, 128 cases were notified, giving a rate of 4·66 per 1,000 of the population.

The diseases notified were :—Smallpox 1, Scarlet Fever 51, Diphtheria and Membranous Croup 15, Erysipelas 22, Typhoid Fever 33, Ophthalmia Neonatorum 6.

There were 33 deaths from the principal zymotic diseases, which gives a rate of 1·20 per 1,000 of the population.

Of the diseases notified 5 deaths occurred, equal to a rate of 39·06 per 1,000 cases notified, or ·18 per 1,000 of the population.

The deaths from the notified cases were :—Typhoid Fever 3, Diphtheria 1, Erysipelas 1.

The deaths from the zymotic diseases which are not included in the list of those notified are :—Diarrhœa, Enteritis, and Gastritis 20, measles 8.

TYPHOID FEVER—Cases notified 33 ; deaths 3. During the year 22 cases were treated with Widal's test : 9 gave positive reaction, and 13 negative. Twenty-three other cases notified did not undergo this test.

Towards the latter end of February there occurred an outbreak of Enteric Fever. This was confined chiefly to the Cottontree district, and continued until the beginning of April, during which period 20 cases were notified. On inquiry the suspicion was formed that the disease was water-bourne. All the cases either lived in houses whose water supply was not the town's supply, but from a well outside the district, or who worked at a tannery and factory supplied by this well. 55 houses in the district were supplied with this water, which was cut off and each house connected to the Borough supply.

All discharges from patients were taken away daily and burnt, and bedding if soiled also burnt, and new bedding provided. During the year seven beds and six pillows were so destroyed.

SMALL-POX—In July a case of Small-pox was notified. The patient was removed to Jerusalem Small-pox Hospital and the house thoroughly disinfected. Contacts were kept under observation and re-vaccinated as far as possible, with the result that no further case developed.

SCARLET FEVER—Cases notified 51 ; deaths 0.

Last year cases notified 20 ; deaths 1.

This disease was not confined to any particular district, but was distributed throughout the town. The cases were mostly of a mild type.

The number of children of school age attacked with the disease was 30, and the schools attended were :—

| | |
|-----------------------|-------|
| Park | 2 |
| Lord Street | 15 |
| West Street | 5 |
| Primet | 2 |
| Christ Church | 4 |
| Laneshaw Bridge..... | 1 |
| Technical School..... | 1 |
| | <hr/> |
| | 30 |
| | <hr/> |

The schools attended by children of school age living in an infected house, who were kept from school were :—

| | |
|-----------------------|-------|
| Park | 9 |
| Lord Street | 2 |
| West Street | 10 |
| Primet | 2 |
| Christ Church | 4 |
| Exchange Street | 1 |
| Laneshaw Bridge..... | 3 |
| | <hr/> |
| | 31 |
| | <hr/> |

DIPHTHERIA AND MEMBRANOUS CROUP—Cases notified 15, deaths 1.

| No. | Sex | Age | Ward | Date Notified | How long suffering from disease | Remarks | If tested | Result |
|-----|-----|-----|-----------|---------------|---------------------------------|--------------------------------------|-----------|----------|
| 1 | M | 5 | Primet B. | Jan. 7 | 6 weeks | Through house | — | — |
| 2 | F | 12 | Vivary B. | Jan. 26 | 4 weeks | do. | — | — |
| 3 | F | 2 | Central | Jan. 26 | 5 weeks | do. | — | — |
| 7 | F | 6 | Central | Feb. 17 | Died Feb. 17 | do. | — | — |
| 21 | F | 9 | Central | Mar. 3 | 5 weeks | do | — | — |
| 32 | M | 9m. | Carry B. | Mar. 21 | 6 weeks | Single house | — | — |
| 41 | F | 3 | Central | Apl. 21 | 5 weeks | Through house | — | — |
| 43 | F | 8 | Central | May 2 | 6 weeks | Through house Defective dishbrick | — | — |
| 46 | M | 3 | Carry B. | May 7 | 6 weeks | Through house | Yes | Positive |
| 47 | M | 10 | Carry B. | May 7 | 6 weeks | do. | — | — |
| 64 | M | 9 | Central | July 21 | 4 weeks | do. | — | — |
| 67 | F | 10 | Central | Aug. 22 | 8 weeks | do. | — | — |
| 68 | M | 7 | Central | Aug. 28 | 8 weeks | do. | — | — |
| 73 | M | 21 | Horsfield | Sept. 19 | 2 weeks | do. | — | — |
| 88 | M | 5 | Carry B. | Nov. 3 | 4 weeks | do. | — | — |

The method of procedure in each case is :—On receipt of the notification, disinfectants and printed instructions are immediately sent to the house. The house is visited the same day and inquiries made, and the premises examined for any sanitary defects, and if any are found notice is immediately served for abatement. Also all drains and closets are flushed. When the case recovers (or otherwise), the premises are disinfected, and the bedding examined, and if marked, is destroyed, and new goods supplied or compensation paid.

OPHTHALMIA NEONATORUM—Cases notified 6 ; deaths 0.

ERYSIPELAS—Cases notified 22 ; deaths 1.

MEASLES—There were 8 deaths registered due to this disease, the ages being :—

- 3 under 1 year.
- 4 between 1 and 2 years.
- 1 12 years of age.

DIARRHŒA AND ENTERITIS—20. Diarrhœa 4, Enteritis 16. In April there were 3 cases of Gastro-Enteritis, which on inquiry were attributed to the eating of diseased mutton.

WHOOPING COUGH—There were 4 deaths from this disease.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS.

From the table below will be seen the number of cases, and the form of notification.

| By whom notified. | Total. | Males. | Females. | Pulmonary Tuber- culosis. | Other forms of Tuberc'l'sis |
|--|--------|--------|----------|---------------------------------|-----------------------------------|
| Primary notifications by Medical Practitioners | 67 | 36 | 31 | 49 | 18 |
| Primary notifications by Medical Inspector of School Children | — | — | — | — | — |
| Notifications by Medical Officers of Poor Law Institutions and Sanatoria | 20 | 16 | 4 | 20 | — |
| Notifications (after discharge) by Medical Officers of Poor Law Institutions and Sanatoria ... | 19 | 16 | 3 | 19 | — |

When a notification is received, a visit is paid and inquiries made into the circumstances and probable mode of infection; disinfectants are provided and instructions given. The number of visits to primary notifications were 78. Subsequent visits are made as required. On receipt of notice of removal, or death, the premises are disinfected with formalin

or sulphur. Arrangements are made by the Authority whereby material is provided for the examination of suspected sputum. During the year there were 16 examinations, of which 6 were positive and 10 negative.

TABLE C.

Table giving the ages of persons affected with infectious diseases during 1914.

| Diseases. | At all ages | Under 1 year | 1 to 5 years | 5 to 15 years | 15 to 25 years | 25 to 65 years | 65 and upwards |
|---|-------------|--------------|--------------|---------------|----------------|----------------|----------------|
| Small-pox | 1 | — | — | — | — | 1 | — |
| Scarlet Fever | 51 | — | 14 | 35 | 1 | 1 | — |
| Typhoid Fever | 33 | — | 1 | 14 | 8 | 9 | 1 |
| Erysipelas | 22 | — | — | — | 3 | 19 | — |
| Diphtheria and Mem- braneous Croup ... } | 15 | 1 | 3 | 10 | 1 | — | — |
| Ophthalmia Neonatorum | 6 | 6 | — | — | — | — | — |
| Totals ... | 128 | 7 | 18 | 59 | 13 | 30 | 1 |

TABLE D.

Table showing the number of houses infected.

| DISEASES. | Number of Cases Notified. | Number of Houses Infected. | Houses remaining Infected January 1st, 1914. | No. of Houses in which disinfection is done by Health Dept. | No. of Houses in which disinfection is done by Occupiers. | No. of Houses in which no disinfection was done. | Houses remaining Infected on December 31st, 1914. |
|-------------------------------------|---------------------------|----------------------------|--|---|---|--|---|
| Smallpox | 1 | 1 | ... | 1 | ... | ... | ... |
| Scarlet Fever | 51 | 45 | 4 | 29 | 4 | 3 | 13 |
| Typhoid Fever | 33 | 23 | 1 | 22 | ... | ... | 2 |
| Erysipelas | 22 | 22 | ... | ... | ... | 22 | ... |
| Diphtheria and Membranous Croup ... | 15 | 13 | ... | 12 | 1 | ... | ... |
| Ophthalmia Neonatorum... .. | 6 | 6 | ... | ... | ... | 6 | ... |
| Totals ... | 128 | 110 | 5 | 64 | 5 | 31 | 15 |

TABLE E.

The following table is a Summary of the Infectious Diseases, and the Deaths from these diseases (notified) in each ward.

| WARDS. | | | | Smallpox. | | Scarlet Fever. | | Typhoid Fever. | | Erysipelas. | | Diphtheria. | | Ophthalmia Neonatorum. | | Totals of preceding columns. | |
|-----------------|-----|-----|-----|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|------------------------|---------|------------------------------|---------|
| | | | | Notified Cases. | Deaths. | Notified Cases. | Deaths. | Notified Cases. | Deaths. | Notified Cases. | Deaths. | Notified Cases. | Deaths. | Notified Cases. | Deaths. | Notified Cases. | Deaths. |
| Primet Bridge | ... | ... | ... | ... | ... | 5 | ... | 5 | 1 | 3 | ... | 1 | ... | ... | ... | 14 | 1 |
| Vivary Bridge | ... | ... | ... | ... | ... | 7 | ... | 2 | ... | 4 | 1 | 1 | ... | 1 | ... | 15 | 1 |
| Central | ... | ... | ... | 1 | ... | 6 | ... | 3 | ... | 1 | ... | 8 | 1 | 2 | ... | 21 | 1 |
| Horsfield | ... | ... | ... | ... | ... | 15 | ... | 4 | ... | 7 | ... | 1 | ... | 1 | ... | 28 | ... |
| Carry Bridge | ... | ... | ... | ... | ... | 8 | ... | 4 | ... | 5 | ... | 4 | ... | 2 | ... | 23 | ... |
| Laneshaw Bridge | ... | ... | ... | ... | ... | 10 | ... | 15 | 2 | 2 | ... | ... | ... | ... | ... | 27 | 2 |
| Totals | | | ... | 1 | ... | 51 | ... | 33 | 3 | 22 | 1 | 15 | 1 | 6 | ... | 128 | 5 |

TABLE F.

The following tables are compiled as last year, in reference to the deaths occurring in the old parts of the town.

HORSFIELD WARD.

| Births. | Street. | Disease. | Age. | Total. |
|---------|---------------|-------------------|-------------------|--------|
| 2 | Buck Street | Natural Causes | 64 years | 1 |
| 4 | Dent Square | Broncho Pneumonia | 7 months | 1 |
| | do. | Premature Birth | 14 hours | 1 |
| 5 | Lister Street | Diarrhoea | 1 month | 1 |
| 7 | King Street | Bronchitis | 63 yrs. & 1 mth. | 2 |
| | do. | Measles | 14 months | 1 |
| | do. | Broncho Pneumonia | 48 years | 1 |
| | do. | Phthisis | 39 yrs. & 52 yrs. | 2 |
| | Union Street | Bronchitis | 66 years | 1 |
| 3 | High Street | ... | ... | ... |
| 3 | Windy Bank | Convulsions | 3 months | 1 |
| | do. | Natural Causes | 53 years | 1 |

Total Births in the above area... 24
Total Deaths under 12 months... 6
Infantile Mortality ... 250

VIVARY BRIDGE WARD.

| Births. | Street. | Disease. | Age. | Total. |
|---------|-------------------|--------------------------|-----------------|--------|
| 3 | Church Meadows... | Bronchitis | 74 years | 1 |
| | do. ... | Measles | 8 months... .. | 1 |
| | do. ... | Erysipelas | 27 years | 1 |
| 2 | Rook Street ... | Chronic Nephritis | 59 years | 1 |
| 1 | Windy Bank ... | ... .. | ... .. | ... |
| 3 | Turney Crook ... | ... .. | ... .. | ... |

Total Births in the above area... 9
Total Deaths under 12 months... 1
Infantile Mortality 111

CARRY BRIDGE WARD.

| Births. | Street. | Disease. | Age. | Total. |
|---------|-----------------------|-------------------------------|------------------|--------|
| 1 | St. John Street ... | Phthisis | 15 years | 1 |
| | do. ... | Diarrhoea | 5 years | 1 |
| 4 | Clayton Street ... | Phthisis | 38 years | 1 |
| 6 | Shackleton Street | Bronchitis | 9 months... .. | 1 |
| 8 | Parliament Street | Tubercular Peritonitis | 6 months... .. | 1 |
| | do. ... | Septic Enteritis | 8 months... .. | 1 |
| | do. ... | Measles | 12 months | 1 |
| | do. ... | Whooping Cough... .. | 20 months | 1 |
| | do. ... | Cellutitis | 3 months... .. | 1 |
| 2 | Nineveh Street ... | ... .. | ... .. | ... |
| 3 | Carry Bridge ... | Senile Decay | 77 years | 1 |
| | do. ... | Endocarditis | 67 years | 1 |
| | do. ... | Measles | 12 months | 1 |
| | do. ... | Carcinoma Uteri | 41 years | 1 |
| 5 | Sagar Fold ... | Icterus Neonatorum | 8 days | 1 |
| | do. ... | Brights Disease | 34 years | 1 |
| | do. ... | Osteo Myelitis | 8 years | 1 |
| 1 | Primrose Hill ... | Phthisis | 23 years | 1 |
| | do. ... | Mitral Stenosis | 23 years | 1 |
| 2 | Bank Terrace ... | Acute Laryngitis | 2 years | 1 |
| 3 | Back Clayton St... .. | Debility from Birth | 9 days | 1 |
| 3 | Parkinson Place ... | Phthisis | 19 years | 1 |
| 1 | Railway Street ... | ... .. | ... .. | ... |
| 1 | Mill Street ... | Bronchitis | 3 months... .. | 1 |

Total Births in the above area ... 40
Total Deaths under 12 months... 6
Infantile Mortality 150

CENTRAL WARD.

| Births. | Street. | Disease. | Age. | Total. |
|---------|------------------------------|--------------------------|---------------|--------|
| 2 | Lenches Fold and Court ... | Ulceration of Bowels ... | 58 years ... | 1 |
| 2 | Lower Green ... | Whooping Cough ... | 23 months ... | 1 |
| 1 | do. ... | Premature Birth ... | 7 hours ... | 1 |
| 1 | Mill Green ... | Convulsions ... | 20 days ... | 1 |
| 1 | Sutcliffe Place and Court .. | ... .. | ... .. | ... |
| 2 | Duerden Yard ... | ... .. | ... .. | ... |
| 3 | Lenches ... | Bronchitis ... | 11 months ... | 1 |
| | Croft Terrace ... | Gastro Enteritis... .. | 2 months ... | 1 |
| | | Heart Disease | 46 years ... | 1 |

Total Births in the above area ... 13

Total Deaths under 12 months... 4

Infantile Mortality 307

PRIMET BRIDGE WARD.

| Births. | Street. | Disease. | Age. | Total. |
|---------|---------------------|---------------------------|---------------|--------|
| 8 | Greenfield Road ... | Measles | 11 months ... | 1 |
| | do. ... | Marasmus | 1 month ... | 1 |
| | do. ... | Diarrhoea | 2 years ... | 1 |
| | do. ... | Cancer | 58 years ... | 1 |
| 2 | Wellington St. ... | ... .. | ... .. | ... |
| 1 | Queen's Court ... | ... .. | ... .. | ... |
| 4 | Bolton Street ... | Broncho Pneumonia ... | 9 months... | 1 |
| | do. ... | Measles | 10 months ... | 1 |
| 3 | Lomas Street ... | Enteric Fever | 10 years ... | 1 |
| | do. ... | Tubercular Meningitis ... | 6 years ... | 1 |
| | do. ... | Pneumonia... .. | 3 years ... | 1 |
| 3 | Cross St. West ... | Endocarditis | 55 years ... | 1 |
| | do. ... | Gastro-Enteritis | 18 months ... | 1 |
| 2 | Primet Street ... | Bronchitis | 56 years ... | 1 |
|  | ... .. | Endocarditis | 46 years ... | 1 |
| 1 | Middle Street ... | ... .. | ... .. | ... |
| 2 | John Street ... | Bronchitis | 73 years ... | 1 |
| | do. ... | Measles | 15 months ... | 1 |
| | do. ... | Broncho Pneumonia ... | 14 months ... | 1 |
| | do. ... | Nephritis | 53 years ... | 1 |

Total Births in the above area ... 26

Total Deaths under 12 months... 4

Infantile Mortality 153

TABLE G.

Table showing the number of notifications of Infectious diseases in selected parts of the town.

| Street. | | | Disease. | | | Total. |
|---------------------|-----|-----|-----------------------|-----|-----|--------|
| Lomas Street | ... | ... | Enteric Fever | ... | ... | 3 |
| Greenfield Road | ... | ... | Scarlet Fever | ... | ... | 2 |
| Waterside Road | ... | ... | Ophthalmia Neonatorum | ... | ... | 1 |
| Lower Green | ... | ... | Scarlet Fever | ... | ... | 1 |
| Garden Street | ... | ... | Scarlet Fever | ... | ... | 2 |
| Lenches | ... | ... | Ophthalmia Neonatorum | ... | ... | 1 |
| Lenches Yard | ... | ... | Diphtheria | ... | ... | 1 |
| Sutcliffe Court | ... | ... | Enteric Fever | ... | ... | 2 |
| do. | ... | ... | Ophthalmia Neonatorum | ... | ... | 1 |
| Nineveh Street | ... | ... | Scarlet Fever | ... | ... | 1 |
| Back Clayton Street | ... | ... | Scarlet Fever | ... | ... | 2 |
| St. John Street | ... | ... | Scarlet Fever | ... | ... | 1 |
| do. | ... | ... | Diphtheria | ... | ... | 1 |
| Parkinson Place | ... | ... | Enteric Fever | ... | ... | 1 |
| Mill Street | ... | ... | Scarlet Fever | ... | ... | 1 |
| Dent Square | ... | ... | Enteric Fever | ... | ... | 1 |
| do. | ... | ... | Ophthalmia Neonatorum | ... | ... | 1 |
| Church Meadows | ... | ... | Erysipelas | ... | ... | 1 |
| Carry Bridge | ... | ... | Diphtheria | ... | ... | 1 |
| Ball Grove | ... | ... | Enteric Fever | ... | ... | 4 |

HOUSING OF THE WORKING CLASSES ACTS, 1890 to 1909.

The modern cottage property in Colne is fairly well built of stone, and is generally satisfactory.

The old property consists chiefly of back-to-back and single houses, with substantial stone walls, built to last. In some parts of the town it has been well cared for, and the interiors as well as the exteriors are in a fairly good condition. In other parts it has been neglected, and requires constant supervision to remedy this state of affairs.

Number of houses in the Borough with a rent under £16 per annum, also estimated population:—

| | No. of Houses. | | Population. | |
|----------------------|----------------|-------|-------------|-------|
| Primet Bridge Ward | ... | 946 | ... | 4820 |
| Vivary Bridge Ward | ... | 1069 | ... | 4539 |
| Central Ward | ... | 1040 | .. | 4420 |
| Horsfield Ward | ... | 1242 | ... | 5380 |
| Carry Bridge Ward... | ... | 1141 | ... | 4850 |
| Laneshaw Bridge Ward | ... | 355 | ... | 1624 |
| | | <hr/> | | <hr/> |
| | | 5793 | | 25633 |

The following is an epitome, in tabular form, of the work done under the Act :—

No. of Dwelling-houses inspected under Sec. 17 of the Act of 1909?
988.

No. of Dwelling-houses considered unfit for human habitation?
None.

Representation to Authority with a view to making Closing Orders?
None.

No. of Closing Orders made ? None.

No. of Dwelling-houses in which defects were remedied without making Closing Orders ? 521.

No. of Dwelling-houses put into a fit state of habitation after making Closing Orders ? None.

No. of Dwelling-houses demolished ? None.

General character of defects found to exist ? Defective caves, roofs, fall-pipes, slopstone pipes, windows, floors, closets, and dampness in bedrooms.

FOOD AND DRUGS ACTS.

Superintendent Thompson reports that during the year the following samples of food have been purchased under the Food and Drugs Acts in the Borough of Colne, and submitted to the Public County Analyst to be analysed.

He reports that one sample of milk was found to be adulterated ; proceedings were taken and a conviction obtained. One sample of Scotch whisky and one Irish whisky were found to be doubtful, but no proceedings were taken. All the other samples were reported genuine.

| | | | | |
|---------------|-----|-----|-----|----|
| Lard | ... | ... | ... | 8 |
| Butter | ... | ... | ... | 8 |
| New Milk | ... | ... | ... | 34 |
| Gin | ... | ... | ... | 2 |
| Scotch Whisky | ... | ... | ... | 4 |
| Irish Whisky | ... | ... | ... | 6 |
| Rum | ... | ... | ... | 1 |
| Coffee | ... | ... | ... | 3 |
| White Pepper | ... | ... | ... | 3 |
| Total | | | | 69 |

RIVERS POLLUTION ACTS.

The provisions of the Rivers Pollution Acts are administered by the Ribble Joint Committee.

CANAL BOATS ACTS.

The Council are exempted from the administration of the Canal Boats Act, owing to the short length of canal within the Borough.

LOCAL ACTS AND ADOPTIVE ACTS.

LOCAL ACTS OF PARLIAMENT—Colne Waterworks Act 1806 ; Colne Gas Act 1877 ; Colne & Marsden Local Board Act 1881 ; Provisional Order Confirmation Act 1887 ; Provisional Order Confirmation Act, 1890 ; Provisional Order Confirmation Act 1894 ; Colne Corporation Act 1897 ; Colne Electric Lighting Order 1898 ; Provisional Orders Confirmation Act 1900 ; Provisional Orders Confirmation Act 1903 ; Colne Corporation Act 1905 ; Colne Corporation Act 1913.

ADOPTED ACTS—Infectious Diseases (Notification) Act 1889 ; Public Health (Amendment) Act 1890 ; Infectious Diseases Prevention

Act 1890; Baths and Washhouses Acts 1846-1899; Notification of Births Act 1907; Public Libraries Acts; Museums and Gymnasiums Act 1891.

CHEMICAL AND BACTERIOLOGICAL EXAMINATIONS.

By arrangement these are undertaken by the Clinical Research Association. The total number of examinations during the year was 40, as follows :—

| | | | Positive. | | Negative. |
|--------|-----|-----|-----------|-----|-----------|
| Blood | ... | ... | 9 | ... | 13 |
| Swabs | ... | ... | 1 | ... | 1 |
| Sputum | ... | ... | 6 | ... | 10 |
| | | | <hr/> 16 | | <hr/> 24 |

MORTUARY.

An up-to-date mortuary has been erected, the same is fitted up complete for post mortems, etc., and provided with a stretcher ambulance. This has been a long required need for the Borough.

STAFF.

The Staff of the Department consists of Medical Officer of Health, Chief Sanitary Inspector, Assistant Sanitary Inspector, and Clerk.

The report of Mr. H. C. SUGDEN, Chief Sanitary Inspector, is as follows :—

The number of notices served was—

| | | | |
|--------------------|-----|-----|-----|
| Intimation Notices | ... | ... | 312 |
| Statutory Notices | ... | ... | 45 |

These notices were served for the abatement of the following nuisances :—

| | | | | | |
|--|-----|-----|-----|-----|-------|
| Defective and insanitary waste water closets | | | | | |
| and clean water closets ... | ... | ... | ... | ... | 61 |
| Defective dishbricks | ... | ... | ... | ... | 3 |
| Defective fall pipes | ... | ... | ... | ... | 16 |
| Defective slopstone pipes | ... | ... | ... | ... | 15 |
| Defective troughing | ... | ... | ... | ... | 11 |
| Defective ashpits | ... | ... | ... | ... | 50 |
| Defective ashbins | ... | ... | ... | ... | 13 |
| Without ashbin accommodation | ... | ... | ... | ... | 1 |
| Defective drains ... | ... | ... | ... | ... | 2 |
| Defective garbage tins | ... | ... | ... | ... | 7 |
| Defective privy closets | ... | ... | ... | ... | 20 |
| Defective backyards | ... | ... | ... | ... | 2 |
| Defective coal place | ... | ... | ... | ... | 1 |
| Defective windows | ... | ... | ... | ... | 1 |
| Insanitary houses | ... | ... | ... | ... | 26 |
| Insanitary areas ... | ... | ... | ... | ... | 1 |
| Insanitary bakehouses | ... | ... | ... | ... | 4 |
| Drains or closets blocked | ... | ... | ... | ... | 41 |
| Emission of black smoke | ... | ... | ... | ... | 8 |
| Accumulation of manure | ... | ... | ... | ... | 11 |
| Accumulation of rubbish | ... | ... | ... | ... | 3 |
| Common Lodging-houses not limewashed | ... | ... | ... | ... | 1 |
| Slaughter Houses not limewashed | ... | ... | ... | ... | 5 |
| Insufficient closet accommodation | ... | ... | ... | ... | 6 |
| Keeping animals so as to be a nuisance | ... | ... | ... | ... | 9 |
| Insufficient ventilation | ... | ... | ... | ... | 2 |
| Miscellaneous | ... | ... | ... | ... | 21 |
| | | | | | <hr/> |
| | | | | | 341 |
| | | | | | <hr/> |

The staff of the department removed obstructions from, or repaired 594 waste water closets, 17 clean water closets, 177 drains and 62 tippers.

The number of sanitary conveniences in the Borough is :—

| | 1913 | 1914 |
|---------------------------------|------|------|
| Ashpits | 4361 | 4363 |
| Ashbins | 767 | 916 |
| Privy Middens | 2 | 2 |
| Waste Water Closets .. | 4315 | 4445 |
| Clean Water Closets ... | 1252 | 1301 |
| Pail Closets... .. | 471 | 470 |
| Tank Closets | 237 | 237 |
| Ashbins substituted for Ashpits | — | 12 |

CONVERSION OF CLOSETS—No tank or pail closets have been converted to W.C's or W.W.C's, but under the Provisional Order of 1903, it is the intention of the Corporation to commence with the conversion of practically the whole of the tank and pail closets within the Borough.

SMOKE NUISANCE—The number of observations taken was 323, each of the duration of one hour, and excessive quantities of black smoke were emitted in 14 instances. The Health Committee resolved that there should be fixed a time limit for the emission of black smoke from factory and workshop chimneys :—

| | |
|------------------------------|---------------------------------|
| Where 1 boiler is in use ... | Limit of 5 minutes in the hour. |
| „ 2 boilers are in use .. | „ 6 „ „ |
| „ 3 „ „ ... | „ 7 „ „ |
| „ 4 or more „ ... | „ 10 „ „ |

A copy of the above resolution has been forwarded to all owners and occupiers of factories and workshops within the Borough.

SLAUGHTER HOUSES—The number remains the same as last year : registered 7, licensed 3, public abattoirs 7. These are all regularly inspected, and the contraventions met with were viz :—5 want of lime washing, 3 defective garbage tins, and 1 defective excreta pail.

The agreement for the removal of garbage by the Corporation has worked so satisfactorily that the butchers have renewed the lease.

There are now five permanent tenants of the public abattoirs, and seven others kill there, but pay per head for animals slaughtered.

The quantity of unsound meat and fish submitted for inspection and condemned was the carcasses of 2 beasts and 1 sheep, internal organs of 1 beast, 126 lbs. fish, and 8 quarts shrimps.

No seizures were made of unsound meat or food exposed for sale.

OFFENSIVE TRADES—The number of these trades carried on in the town is the same as last year, viz :—Two fellmongers, two tripe dressers, one tanner, one gut cleaning. One contravention was met with, viz :—Effluvia from tripe boiling.

COMMON LODGING HOUSES—The number of these houses registered is still nine. They are regularly inspected, and the following contraventions of the Byelaws were met with, viz :—Want of limewashing and cleansing, insanitary closet accommodation, and defective closets and ashpits.

HOUSES-LET-IN-LODGINGS—These houses are in far better condition than heretofore ; they are regularly inspected, and the following contraventions of the Byelaws were met with :—Insanitary, want of limewashing, filthy bed, defective plaster and flag, and closet blocked.

The number of houses registered remains the same as last year, viz ;—57.

BAKEHOUSES—The number of these premises in the Borough is 29, and during inspection the following defects were found :—4 want of limewashing.

FACTORIES—The number in the town is 119. The following nuisances were discovered :—Insanitary closets, insufficient sanitary accommodation, insufficient ventilation, defective drainage.

WORKSHOPS—The number in the Borough is 162. During the inspections the following nuisances were found :—Want of limewashing, defective closets, insanitary closets.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDERS—The number of farms in the district is 69, milksellers 5, dairy shops 2.

One case of scarlet fever and two cases of erysipelas were notified at farms ; no further case traced to these. The milk supply during the year has been fairly satisfactory. As will be noted from Superintendent Thompson's report 34 samples of milk were examined, one sample only being found to be adulterated.

CONTAGIOUS DISEASES OF ANIMALS ACT AND ORDERS—In accordance with the Sheep Dipping Order of 1907, 219 sheep and 161 lambs were dipped during the first period. There was no dipping during the second period, owing to the Order having been suspended by the Board of Agriculture and Fisheries on account of the war. Under the Tuberculosis Order of 1913, 5 beasts were destroyed, for which the owners were compensated ; this order was also suspended.

In accordance with the provisions of the Dogs Act, 1906, 21 stray dogs were received at the Destructor Works ; 9 were sold, 7 destroyed, and 5 were returned to owners.

REFUSE DESTUCTOR—The quantity of refuse destroyed during the year was :—

| | | 1913 | | 1914 |
|---------------------------|--------|-------------|-----|-------------|
| Loads of Ashpit Refuse... | ... | 3913 | ... | 4351 |
| Loads of Garbage | ... .. | 439 | ... | 406 |
| | | <u>4352</u> | | <u>4757</u> |

The approximate weight of ashpit refuse per load was 21 cwts., the same as last year.

| | | 1913 | | | 1914 | | |
|---------------|--------|------------|-----------|----------|------------|-----------|----------|
| | | Tons. | Cwts. | Qrs. | Tons. | Cwts. | Qrs. |
| Ashpit Refuse | ... | 424 | 13 | 3 | 455 | 5 | 0 |
| Garbage | ... .. | 422 | 18 | 0 | 402 | 11 | 3 |
| | | <u>466</u> | <u>11</u> | <u>3</u> | <u>496</u> | <u>16</u> | <u>3</u> |

No. of loads taken to Brown Hill Tip, 530.

During the year 20 tons 10 cwts. 0 qrs. of waste tins, 5 tons 13 cwts 0 qrs. of scrap iron, and a quantity of glass, earthenware, etc., was disposed of.

The amount of revenue received from the Destructor Works was as follows :—

| | £ | s. | d. |
|---------------------------|-------|----|----|
| Scrap Iron | 5 | 13 | 0 |
| Waste Tins | 4 | 2 | 0 |
| Dogs Sold and Claimed ... | | 19 | 3 |
| Brushes | | 3 | 0 |
| Glass | | 1 | 5 |
| Drag | | | 6 |
| Shovel | | | 4 |
| Loan of Tank Cart | | 1 | 0 |
| | <hr/> | | |
| | £11 | 0 | 6 |
| | <hr/> | | |

A portion of clinkers was removed to the Corporation Sewage Works.

I am again pleased to say that since the construction of the Dust Catcher we have not had any complaints about the fine dust which was occasionally emitted from the Destructor chimney.

NIGHT-SOIL REMOVAL—The loads of excreta removed from privies and cesspools during the year were 1117, as against 1191 last year.

SMALLPOX HOSPITAL—This building is kept in readiness for the reception of patients, and has been further extended by the erection of a discharging room, bathroom and scullery. The number of beds is 20.

A Temporary Hospital, containing 10 beds, for the treatment of Infectious Diseases has been erected on Jerusalem Farm.

JERUSALEM FARM—The farm is still let for grazing.

PUBLIC URINALS—The number of public urinals in the Borough is now 11.

Negretti & Zambra's Self-Recording Rain Gauge at the Cemetery Grounds.

SUMMARY OF READINGS, 1901 TO 1914.

| | | | | Depth in inches. | No. of days on which rain fell. |
|--------------------------------|----------------------|--------------------------|-------------------------------|---------------------|------------------------------------|
| Total Rainfall for the year | 1901 | ... | ... | 26.29 | 161 |
| " | " | " | 1902 | ... | 27.96 |
| " | " | " | 1903 | ... | 48.47 |
| " | " | " | 1904 | ... | 33.99 |
| " | " | " | 1905 | ... | 29.89 |
| " | " | " | 1906 | ... | 40.25 |
| " | " | " | 1907 | ... | 40.13 |
| " | " | " | 1908 | ... | 43.95 |
| " | " | " | 1909 | ... | 44.98 |
| " | " | " | 1910 | ... | 49.23 |
| " | " | " | 1911 | ... | 47.47 |
| " | " | " | 1912 | ... | 48.13 |
| " | " | " | 1913 | ... | 37.05 |
| " | " | " | 1914 | ... | 36.28 |
| Inches. | | | | | |
| Average Annual Rainfall | 1901-1914... | ... | ... | ... | 39.57 |
| Heaviest rainfall for 1 month, | 1901-1914, Oct. 1903 | ... | ... | ... | 8.53 |
| " | " | 1 day of 24 h's | 1901-1914, 24th June, 1911... | ... | 2.64 |
| " | " | 1 hour | 1901-1914, May 13th, 1911 | ... | 1.30 |
| " | " | a short period (5 mins.) | 1901-14, June 17th, 1911 | ... | .16 |

SUMMARY OF RAINFALL FOR 1914.

| Month | Depth in Inches | No. of days on which rain fell | |
|-----------|--------------------|--------------------------------------|---------------------------------|
| January | 3.56 | 21 | Monthly average 3.02 inches. |
| February | 2.11 | 16 | Heaviest rainfall for one month |
| March | 3.88 | 25 | November, 1914, 6.52 inches. |
| April | 1.06 | 9 | Heaviest rainfall for one day, |
| May | 1.97 | 14 | November 11th, 1914, 1.32 |
| June | 1.51 | 11 | inches. |
| July | 2.71 | 13 | Heaviest rainfall for one hour, |
| August | 2.68 | 12 | July 1st, 1914. .46 inches. |
| September | 2.64 | 11 | Heaviest rainfall for a short |
| October | 2.42 | 14 | period (5 mins.) August 6th, |
| November | 6.52 | 22 | 1914, .09 inches. |
| December | 5.22 | 26 | |
| Total... | 36.28 | 194 | |

The height of the rain gauge above sea level is 618.74 feet.

" " " " ground is 3 feet.

WATER SUPPLY.

MR. J. F. BEDFORD, the Water Engineer and Manager, reports as follows :—

The past year has been a very dry one up to the last two months, but not quite so dry during the vital period from May to October as was the previous year. As a consequence, neither the Reservoir nor the Springs reached so low a point as in the previous year.

Steps for conserving the supply in the Reservoir, however, were taken in good time, and the Wycollar Pump was put into work in May, and kept going until November. Notices for the prohibition of the use of water for swilling purposes were in effect for some sixteen weeks from June to October, but it was not found necessary to curtail the supply to the town in any way.

The demand for water still grows, over 300 new supplies having been added during the year, including some 90 old houses in the Water-side and Cottontree districts, which were formerly supplied from private sources.

The quality of the supply has been maintained, and good results have been obtained from the mechanical filters.

The estimated daily consumption from the springs during the year was 200,000 gallons, and the supply drawn from the Laneshaw reservoir was 365,000 gallons, making a total estimated consumption of 565,000 gallons per diem.

The rainfall recorded at Laneshaw reservoir for the last nine years has been as follows :—

| | | | |
|---------|-----|-----|----------------|
| 1906 | ... | ... | 38·11 inches. |
| 1907 | ... | ... | 36·55 „ |
| 1908 | ... | ... | 36·63 „ |
| 1909 | ... | ... | 34·57 „ |
| 1910 | ... | ... | 39·85 „ |
| 1911 | ... | ... | 37·78 „ |
| 1912 | ... | ... | 43·96 „ |
| 1913 | ... | ... | 32·94 „ |
| 1914 | ... | ... | 35·59 „ |
| Average | | | <u>37·33 „</u> |

Thanks are due to the heads of the different departments for willingly supplying the required Statistics for compiling this report.

I am, Gentlemen,

Your Obedient Servant,

W. DOYLE, M.B.,C.M.,

March 1st, 1915.

Medical Officer of Health.

TABLE I.

Vital Statistics of Whole District during 1914 and previous Years.

33

| Year. | Population estimated to Middle of each Year. | Births. | | | Total Deaths Registered in the District. | | Transferable Deaths. | | Nett Deaths belonging to the District. | | | |
|-------|---|-----------------------------|--------|-------|--|-------|---|--|---|--------------------------------------|--------------|-------|
| | | Un- corrected Number. | Nett. | | Number | Rate. | Of Non- residents registered in the District. | Of Resi- dents not registered in the District. | Under 1 Year. | | At all Ages. | |
| | | | Number | Rate. | | | | | Number | Rate per 1,000 Nett Births. | | |
| | | | | | | | | | | | | |
| 1909 | 26,725 | 531 | 531 | 19·86 | 299 | 11·18 | 4 | 48 | 56 | 105 | 343 | 12·94 |
| 1910 | 27,493 | 528 | 528 | 19·20 | 303 | 11·02 | ... | 34 | 77 | 145 | 337 | 12·25 |
| 1911 | 25,693 | 566 | 566 | 22·02 | 334 | 12·99 | 4 | 67 | 86 | 151 | 397 | 15·45 |
| 1912 | 26,614 | 527 | 528 | 19·83 | 334 | 12·54 | 5 | 50 | 72 | 136 | 379 | 14·24 |
| 1913 | 27,106 | 543 | 543 | 20·03 | 321 | 11·84 | 5 | 48 | 55 | 101 | 364 | 13·42 |
| 1914 | 27,404 | 485 | 489 | 17·84 | 348 | 12·69 | 8 | 36 | 57 | 116 | 376 | 13·72 |

TABLE II.

Cases of Infectious Diseases notified during the Year 1914.

| Notifiable Disease. | Number of Cases Notified | | | | | | | Total Cases notified in each Locality. (e.g. Parish or Ward) of the District. | | | | | | Total Cases removed to Hospital. |
|------------------------------------|--------------------------|-----------------|---------|----------|-----------|----------|-----------|--|------------------------|---------------|-------------------|-----------------------|---------------------|-------------------------------------|
| | At all Ages. | At Ages---Years | | | | | | Prinet Bridge Ward. | Vivary Bridge Ward. | Central Ward, | Horsheld Ward. | Carry Bridge Ward. | Laneshaw Bridge. | |
| | | Under 1 | 1 to 5. | 5 to 15. | 15 to 25. | 25 to 45 | 45 to 65. |  |  |  |  |  |  |  | 65 and upwards |
| Small-pox | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| Cholera | 15 | .. | .. | .. | .. | .. | .. | .. | .. | 8 | 1 | .. | .. | .. |
| Diphtheria (including Memb. Croup) | 22 | 1 | 3 | 10 | 1 | 9 | 10 | .. | .. | 1 | 7 | 4 | 2 | .. |
| Erysipelas | 51 | .. | .. | .. | 3 | 1 | .. | .. | .. | 6 | 15 | 8 | 10 | .. |
| Scarlet Fever | .. | 14 | 35 | 1 | 1 | .. | .. | .. | .. | 3 | 4 | .. | .. | .. |
| Typhus Fever | .. | .. | .. | .. | 8 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Enteric Fever | 33 | .. | 1 | 14 | .. | 6 | 3 | 1 | 5 | .. | 5 | 2 | 15 | 1 |
| Relapsing Fever | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Continued Fever | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Puerperal Fever | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Cerebro Spinal Meningitis | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Pulmonary Tuberculosis . | 49 | .. | 1 | .. | 15 | 21 | 12 | .. | 9 | 7 | 12 | 8 | 2 | 20 |
| Other forms of Tuberculosis | 18 | .. | 4 | 6 | 4 | 1 | 1 | .. | 2 | 4 | 5 | 3 | 2 | .. |
| Ophthalmia Neonatorum.. | 6 | 6 | .. | .. | .. | .. | .. | .. | .. | 2 | 1 | 2 | .. | .. |
| Totals | 195 | 9 | 23 | 65 | 32 | 39 | 26 | 1 | 25 | 32 | 45 | 34 | 31 | 22 |

(Table III).

Cause of, and Ages at Death, during the Year 1914.

| CAUSE OF DEATH. | Nett Deaths at the sub-joined ages of Residents whether occurring within or without the District. | | | | | | | | Total Deaths whether of "Residents" or "Non-Residents" in District. | |
|---|---|--------------|---------------------|---------------------|----------------------|-----------------------|-----------------------|-----------------------|---|----------------|
| | All ages | Under 1 year | 1 and under 2 years | 2 and under 5 years | 5 and under 15 years | 15 and under 25 years | 25 and under 45 years | 45 and under 65 years | | 65 and upwards |
| All Causes { Certified .. Uncertified .. | 364 12 | 52 5 | 18 1 | 14 .. | 13 .. | 22 .. | 56 1 | 90 1 | 99 4 | 21 .. |
| Enteric Fever.. | 3 | .. | .. | .. | 1 | 1 | 1 | .. | .. | .. |
| Small Pox .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Measles .. | 8 | 3 | 4 | .. | 1 | .. | .. | .. | .. | .. |
| Scarlet Fever .. | .. | .. | 3 | 1 | .. | .. | .. | .. | .. | .. |
| Whooping Cough | 4 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Diphtheria and Croup | 1 | .. | .. | .. | 1 | .. | .. | 1 | 2 | .. |
| Influenza .. | 3 | .. | .. | .. | .. | .. | 1 | .. | .. | .. |
| Erysipelas .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Phthisis (Pulmonary Tuberculosis) | 25 | .. | .. | 1 | .. | 7 | 13 | 3 | 1 | .. |
| Tuberculous Meningitis .. | 4 | 2 | 1 | 1 | 2 | 1 | 1 | .. | .. | 1 |
| Other Tuberculous Diseases | 5 | .. | .. | 1 | .. | .. | 4 | 18 | 10 | 1 |
| Cancer, malignant diseases | 32 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Rheumatic Fever .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Meningitis .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Organic Heart Disease | 34 | .. | .. | .. | .. | 2 | 3 | 15 | 14 | 2 |
| Bronchitis .. | 47 | 6 | 1 | 1 | .. | 1 | 4 | 10 | 24 | .. |
| Pneumonia (all forms) .. | 31 | 6 | 5 | 4 | 1 | .. | 4 | 7 | 4 | 1 |
| Other diseases of respiratory organs | 3 | .. | .. | .. | .. | 2 | 2 | 1 | .. | .. |
| Diarrhoea and Enteritis .. | 20 | 9 | 4 | 3 | 1 | 2 | .. | 1 | .. | .. |
| Appendicitis and Typhlitis. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |
| Cirrhosis of Liver .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Alcoholism .. | 2 | .. | .. | .. | .. | .. | 1 | 1 | .. | .. |
| Nephritis and Bright's Disease | 19 | 1 | .. | 1 | 1 | 2 | 3 | 5 | 6 | 2 |
| Puerperal Fever .. | 1 | .. | .. | .. | .. | .. | 2 | .. | .. | .. |
| Other accidents and diseases of Pregnancy and Parturition | 3 | 1 | .. | .. | .. | .. | 1 | .. | .. | 1 |
| Congenital Debility & Malformation, including Prem. Birth.. | 21 | 21 | .. | .. | .. | .. | .. | .. | .. | .. |
| Violent Deaths, excluding suicide | 3 | .. | .. | .. | 1 | .. | 1 | 1 | .. | 1 |
| Suicide .. | 1 | .. | .. | .. | .. | .. | .. | 1 | .. | .. |
| Other Defined Diseases .. | 96 | 7 | 1 | 1 | 4 | 5 | 15 | 25 | 38 | 9 |
| Diseases ill-defined or unknown | 9 | 1 | .. | .. | .. | 1 | 1 | 2 | 4 | .. |
| Totals | 376. | 57 | 19 | 14 | 13 | 22 | 57 | 91 | 103 | 21 |

(Table IV.)

INFANTILE MORTALITY.

Nett Deaths from stated causes at various ages under One Year of age.

| CAUSES OF DEATH. | | Under 1 week | 1-2 weeks | 2-3 weeks | 3-4 weeks | Total under 1 month | 1-3 months | 3-6 months | 6-9 months | 9-12 months | Total Deaths under 1 year |
|--------------------------------|------------------------------|--------------|-----------|-----------|-----------|---------------------|------------|------------|------------|-------------|---------------------------|
| All Cases | { Certified { Uncertified | 13 1 | 4 ... | 1 1 | 1 ... | 19 2 | 6 ... | 7 2 | 10 1 | 10 ... | 52 5 |
| Small-pox | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Chicken-pox | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Measles ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 2 | 3 |
| Scarlet Fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Whooping Cough | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diphtheria and Croup | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Erysipelas | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Tuberculous Meningitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Abdominal Tuberculosis | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 2 |
| Other Tuberculous Diseases | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Meningitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Convulsions | ... | ... | 1 | 1 | ... | 2 | ... | 1 | 1 | 1 | 5 |
| Laryngitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Bronchitis | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | 3 | 6 |
| Pneumonia (all forms) | ... | ... | ... | ... | ... | ... | 1 | ... | 3 | 2 | 6 |
| Diarrhoea | ... | 1 | ... | ... | ... | 1 | ... | 1 | ... | ... | 2 |
| Enteritis | ... | ... | ... | ... | ... | ... | 1 | 2 | 3 | 1 | 7 |
| Gastritis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Syphilis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Rickets | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Suffocation (overlying) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Injury at Birth | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Atelectasis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Congenital Malformation | ... | 2 | ... | ... | ... | 2 | ... | ... | ... | ... | 2 |
| Premature Birth | ... | 8 | ... | ... | ... | 8 | ... | ... | ... | ... | 8 |
| Atrophy, Debility and Marasmus | ... | 2 | 2 | 1 | 1 | 6 | 3 | 2 | ... | ... | 11 |
| Other Causes | ... | 1 | 1 | ... | ... | 2 | ... | 2 | ... | 1 | 5 |
| Totals | ... | 14 | 4 | 2 | 1 | 21 | 6 | 9 | 11 | 10 | 57 |